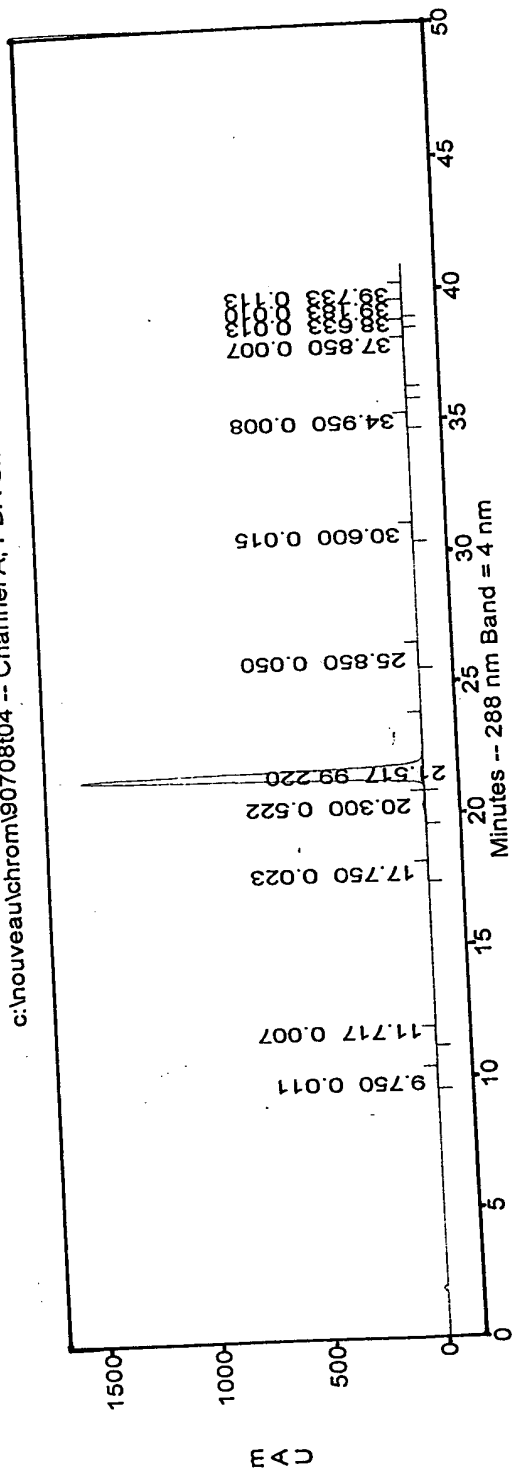


APPROVED	O. G. FIG.
BY	CLASS / SUBCLASS
DRAFTSMAN	

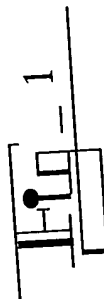
c:\nouveau\chrom\90708t04 -- Channel A, PDA Channel 1



Channel A Results -- PDA Channel 1, 288 nm, 4 nm Band

Peak	Time	Area	Area %
1	9.75	3495	0.011
2	11.72	2337	0.007
3	17.75	7088	0.023
4	20.30	163323	0.522
5	21.52	31072058	99.220
6	25.85	15540	0.050
7	30.60	4828	0.015
8	34.95	2586	0.008
9	37.85	2242	0.007
10	38.63	4186	0.013
11	39.18	3270	0.010
12	39.73	35352	0.113

Totals : 31316304 100.000



091644387 - 082300

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

c:\nouveau\chrom\90708\04, Channel A - Wavelength: 287 nm

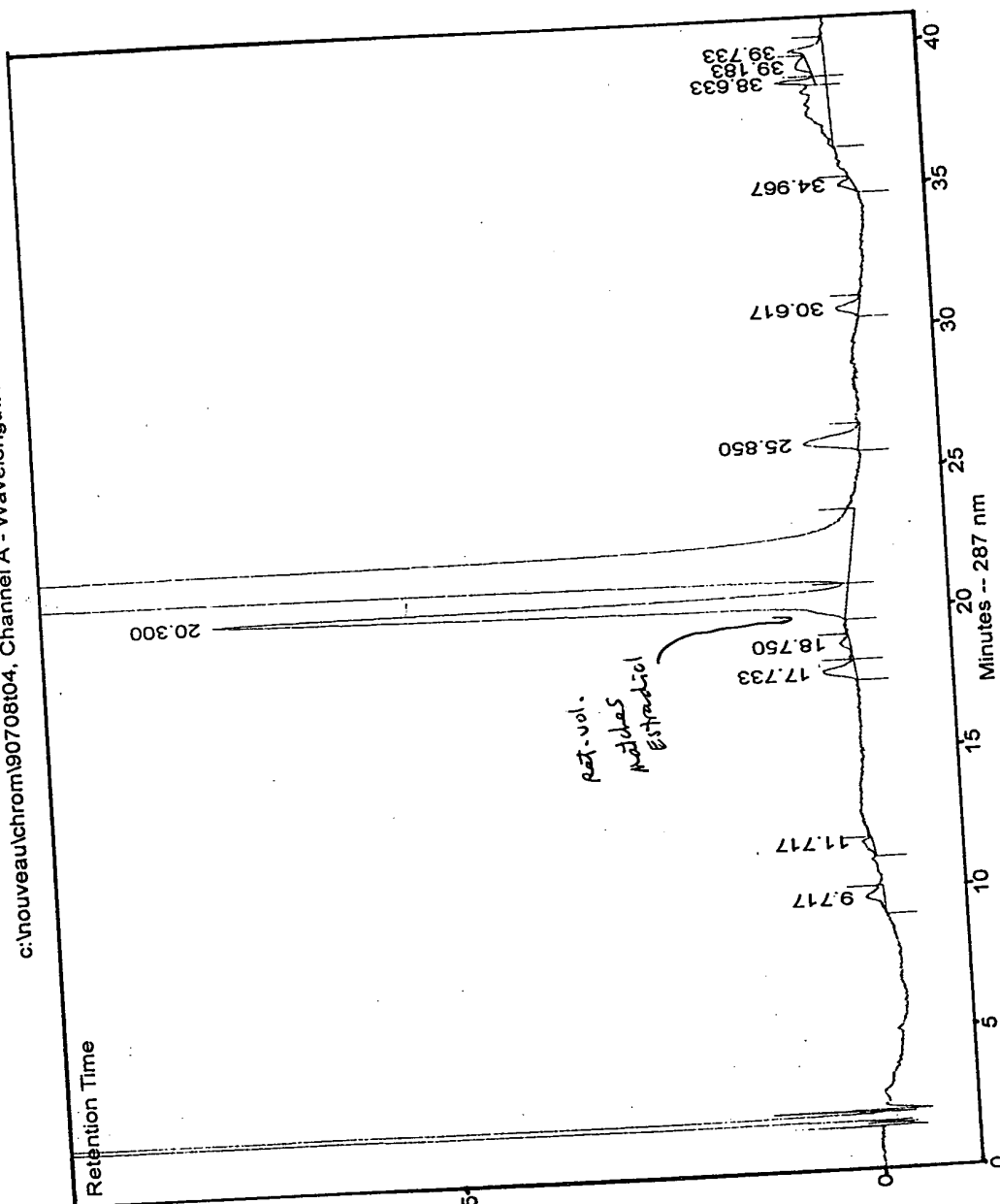
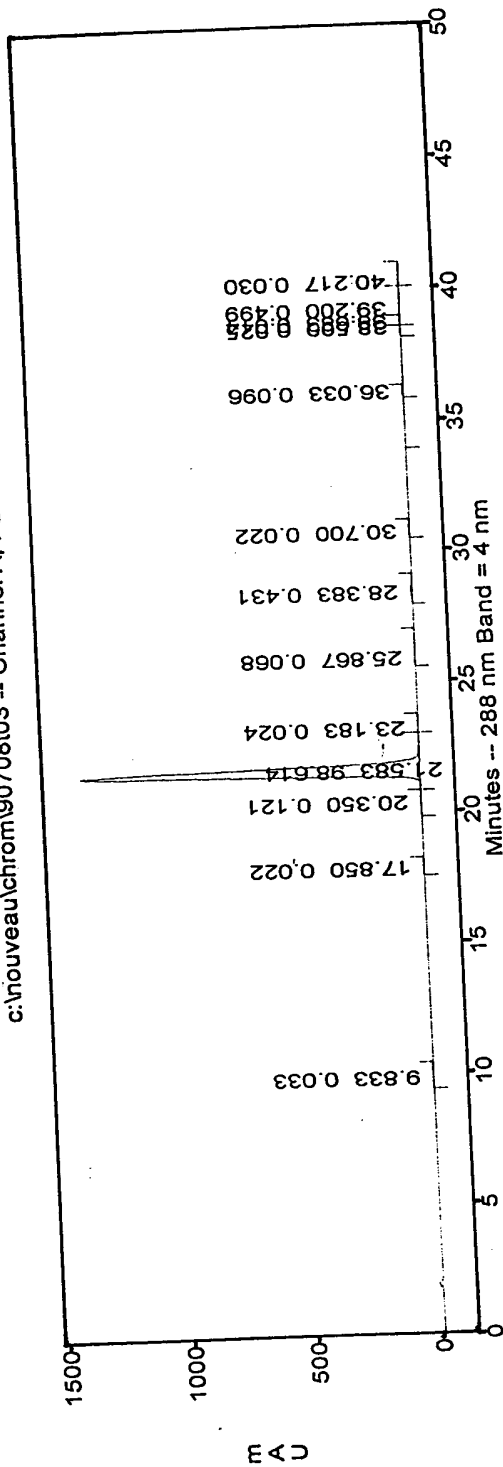


FIG - 2

09644387-082300

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

c:\nouveau\chrom\90708t03 -- Channel A, PDA Channel 1



Channel A Results -- PDA Channel 1, 288 nm, 4 nm Band

Peak	Time	Area	Area %
1	9.83	8932	0.033
2	17.85	5885	0.022
3	20.35	32561	0.121
4	21.58	26490718	98.614
5	23.18	6510	0.024
6	25.87	18219	0.068
7	28.38	115757	0.431
8	30.70	6012	0.022
9	36.03	25812	0.096
10	38.50	6762	0.025
11	38.68	3699	0.014
12	39.20	134115	0.499
13	40.22	7956	0.030

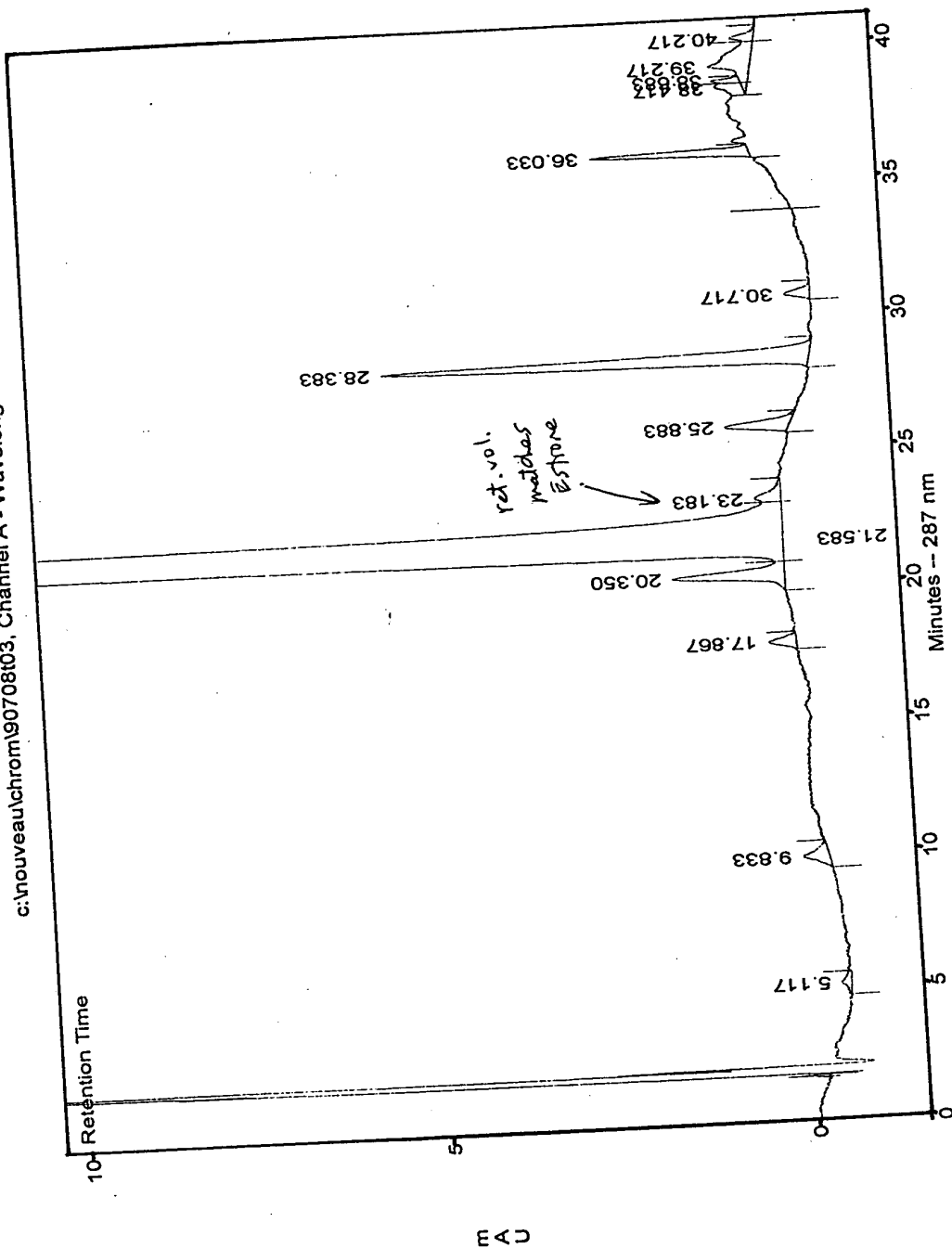
Totals : 26862936 100.000

17-3

091544387.082300

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

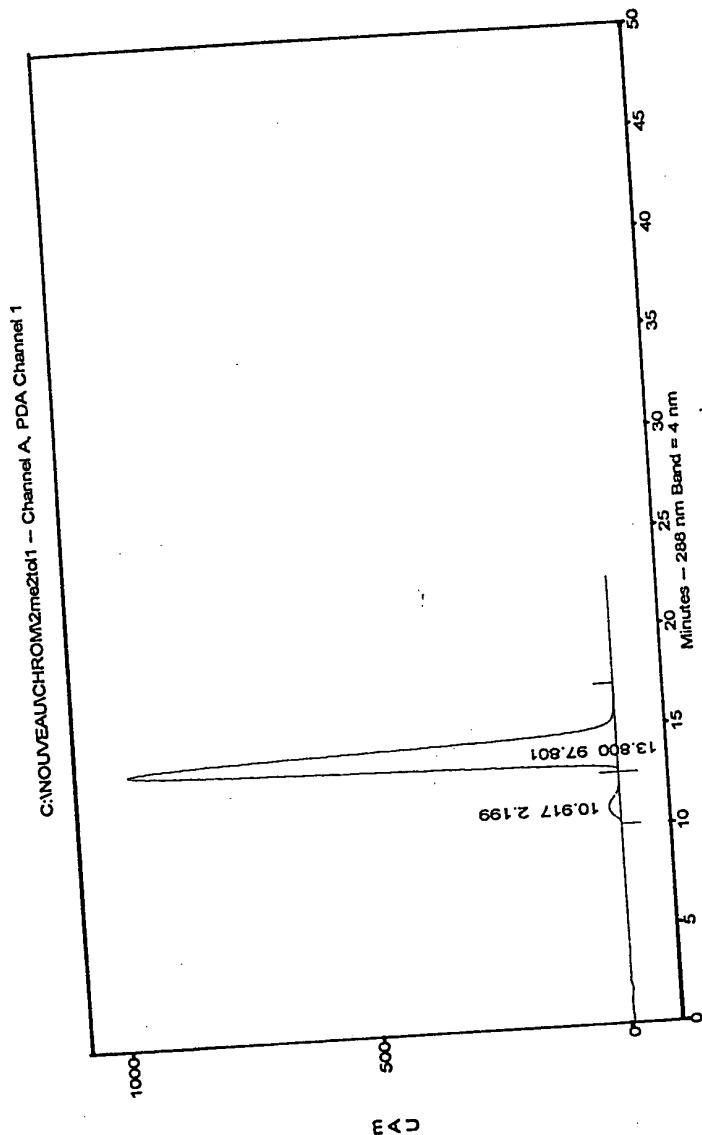
c:\nouveau\chrom\90708\03, Channel A - Wavelength: 287 nm



10-4

09644387.082300

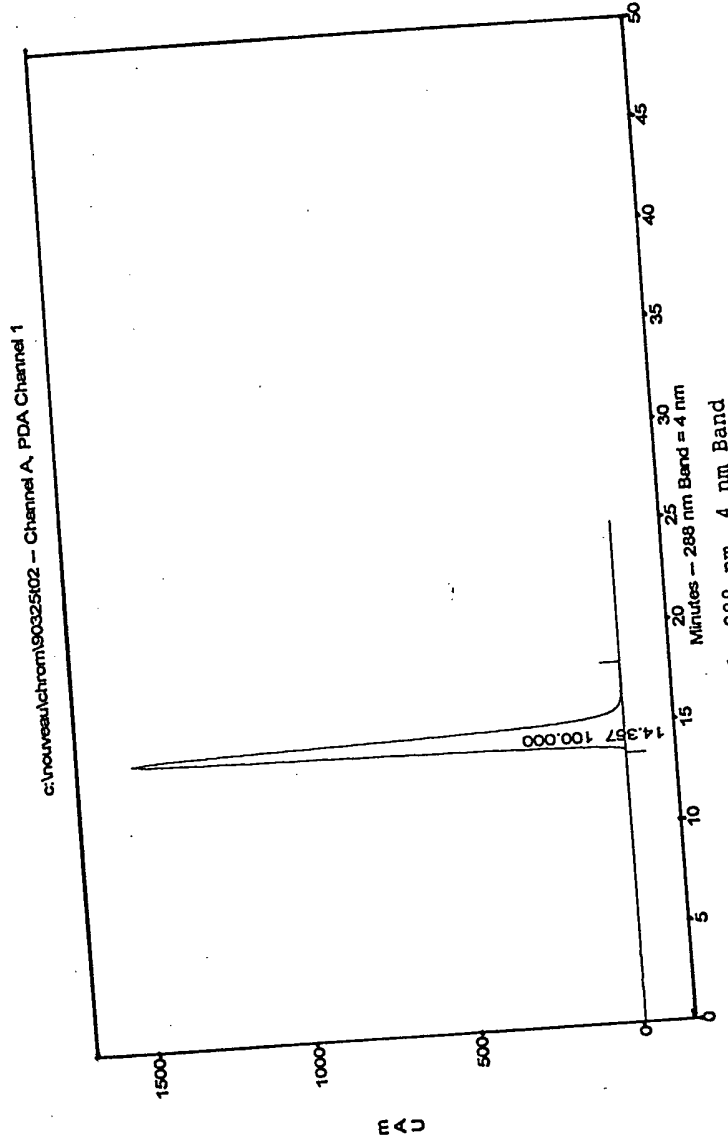
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



10-5

091544387.082300

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



Fi-6

09644387.082300

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

c:\nouveau\chrom\90325t02, Channel A - Wavelength: 288 nm

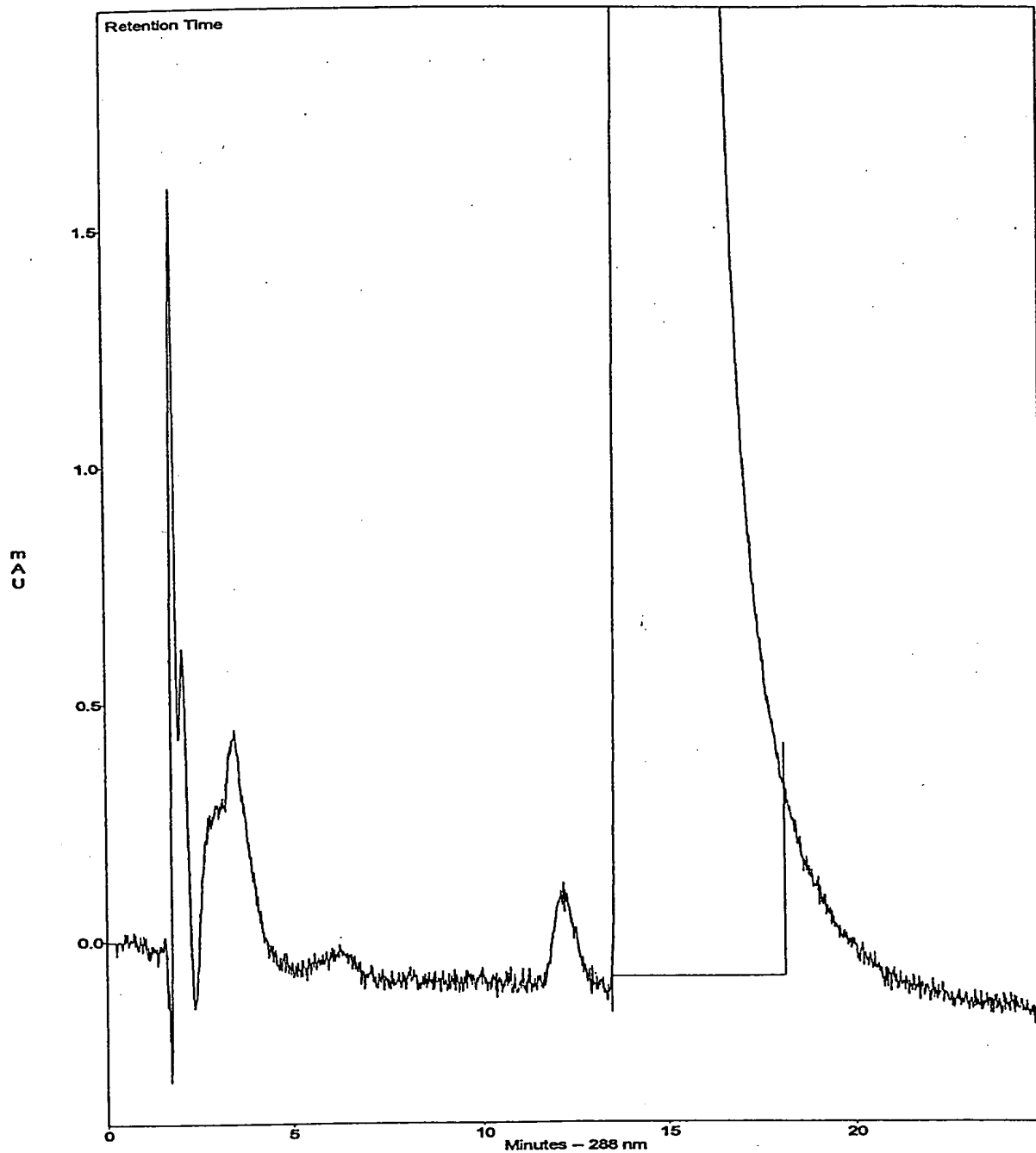
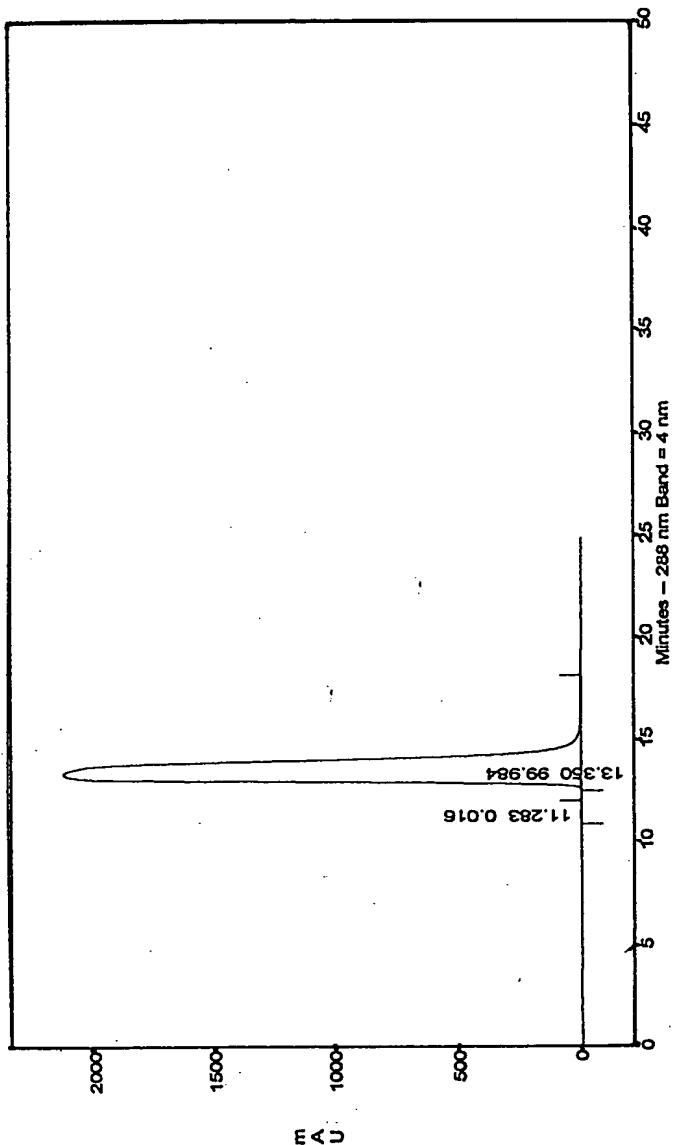


Fig - 7

000280" 28844960

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

c:\nouveau\chrom\90325\03 - Channel A, PDA Channel 1



Peak	Time	Area	Area %
1	11.28	22624	0.016
2	13.35	142193616	99.984

Totals : 142216240 100.000

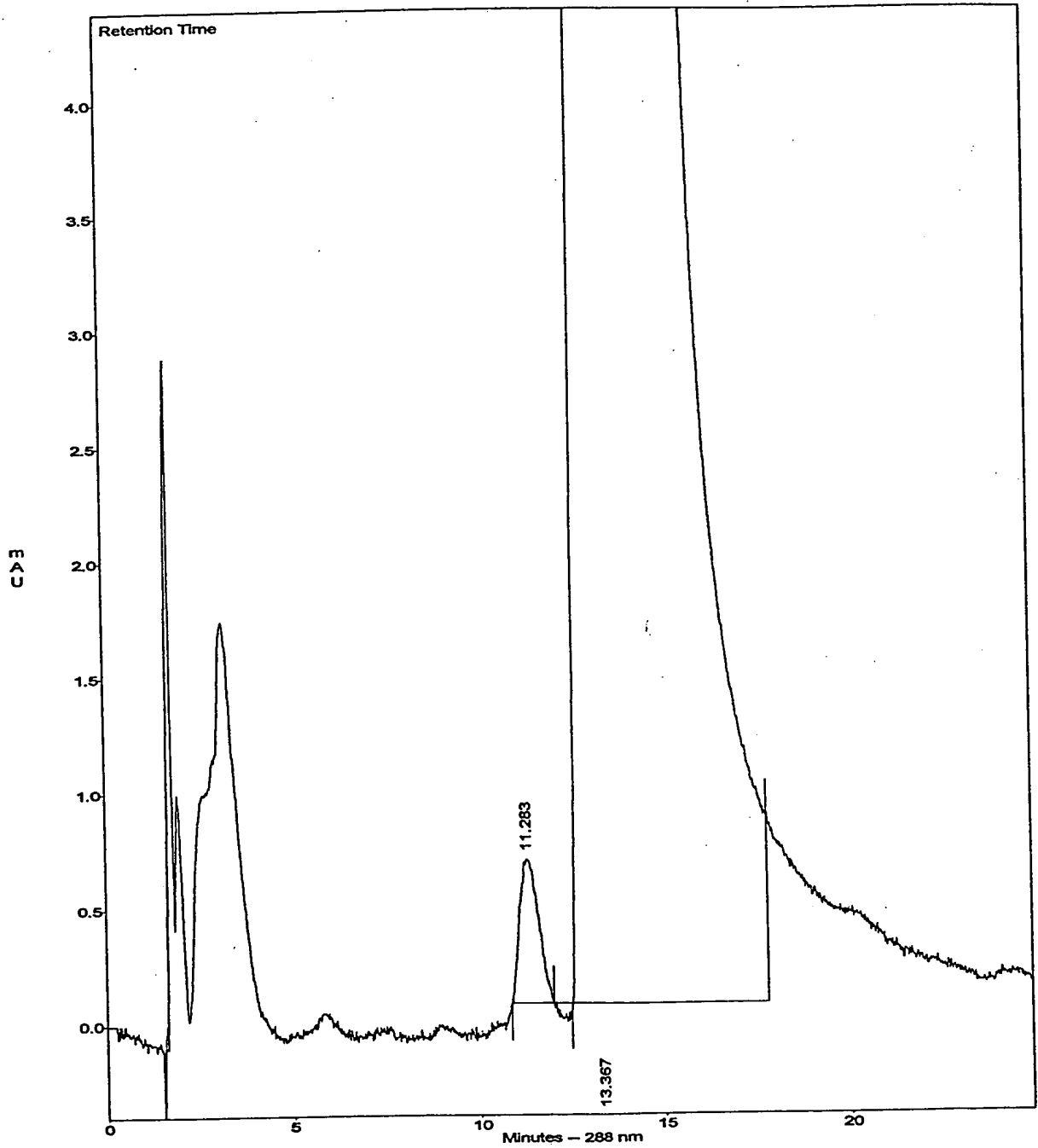
11-8

09644387 082300



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

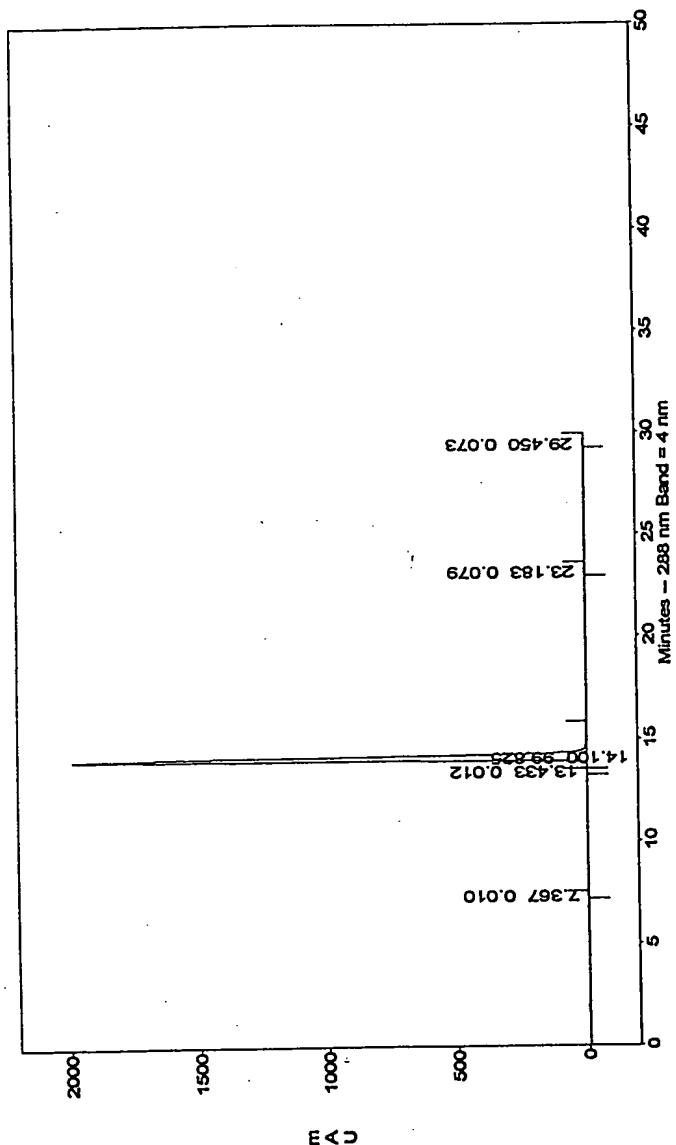
c:\nouveau\chrom\90325t03, Channel A - Wavelength: 288 nm



0002280" 288nm 960

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

c:\nouveau\chrom\90325106 - Channel A, PDA Channel 1



Channel A Results -- PDA Channel 1, 288 nm, 4 nm Band

Peak	Time	Area	Area %
1	7.37	2518	0.010
2	13.43	3186	0.012
3	14.10	25794770	99.825
4	23.18	20448	0.079
5	29.45	18953	0.073

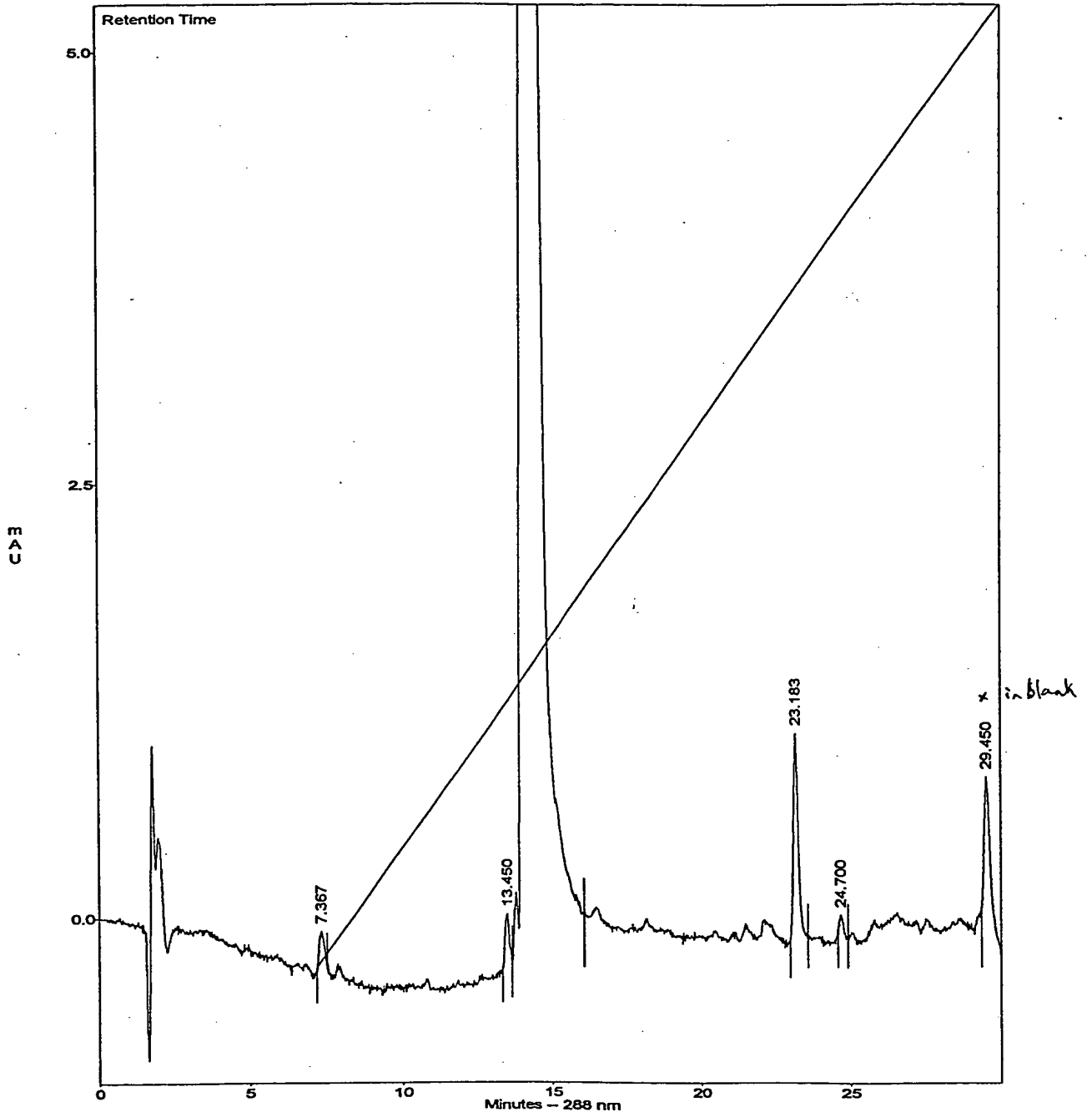
Totals : 25839876 100.000

10

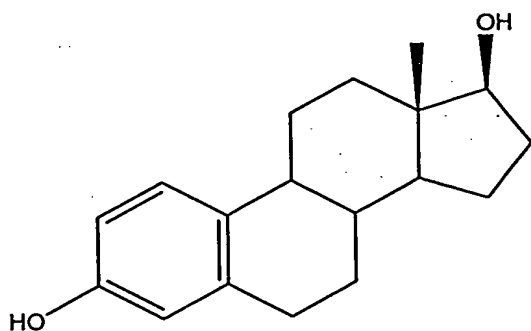
09644387.082300

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

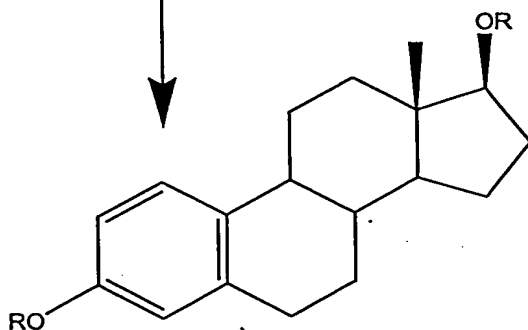
c:\nouveau\chrom\90325t06, Channel A - Wavelength: 288 nm



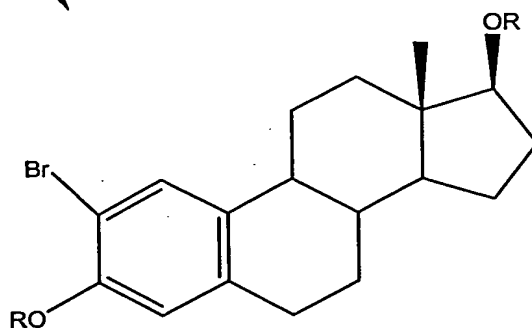
APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	



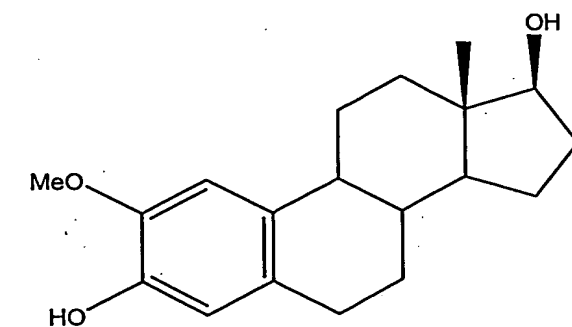
R-halide, TBAI,  
NaH, DMF



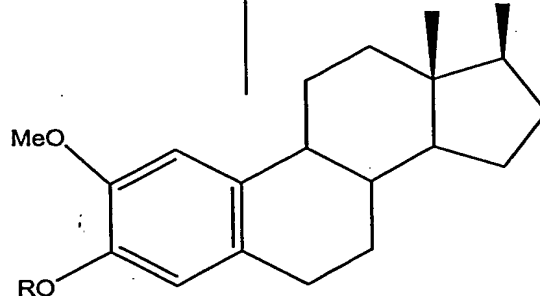
Br<sub>2</sub>, HOAc



NaOMe, benzo-15-crown-5,  
CuI, DMF

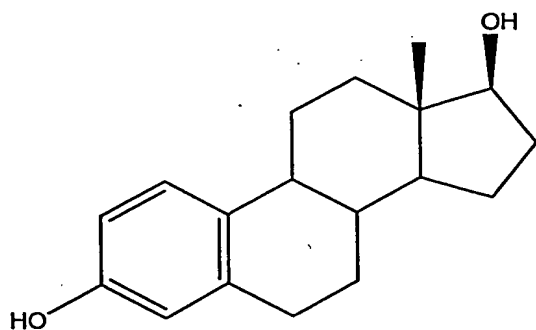


Pd/C, H<sub>2</sub>  
MeOH

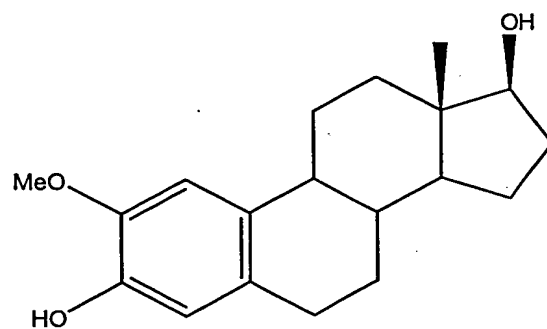
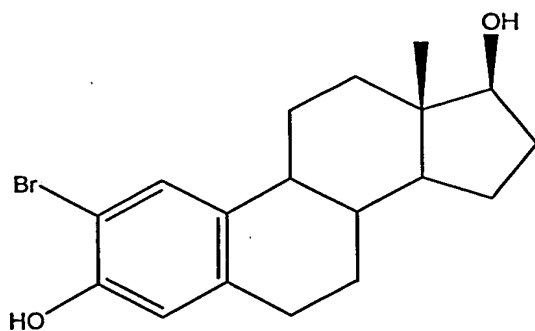


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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



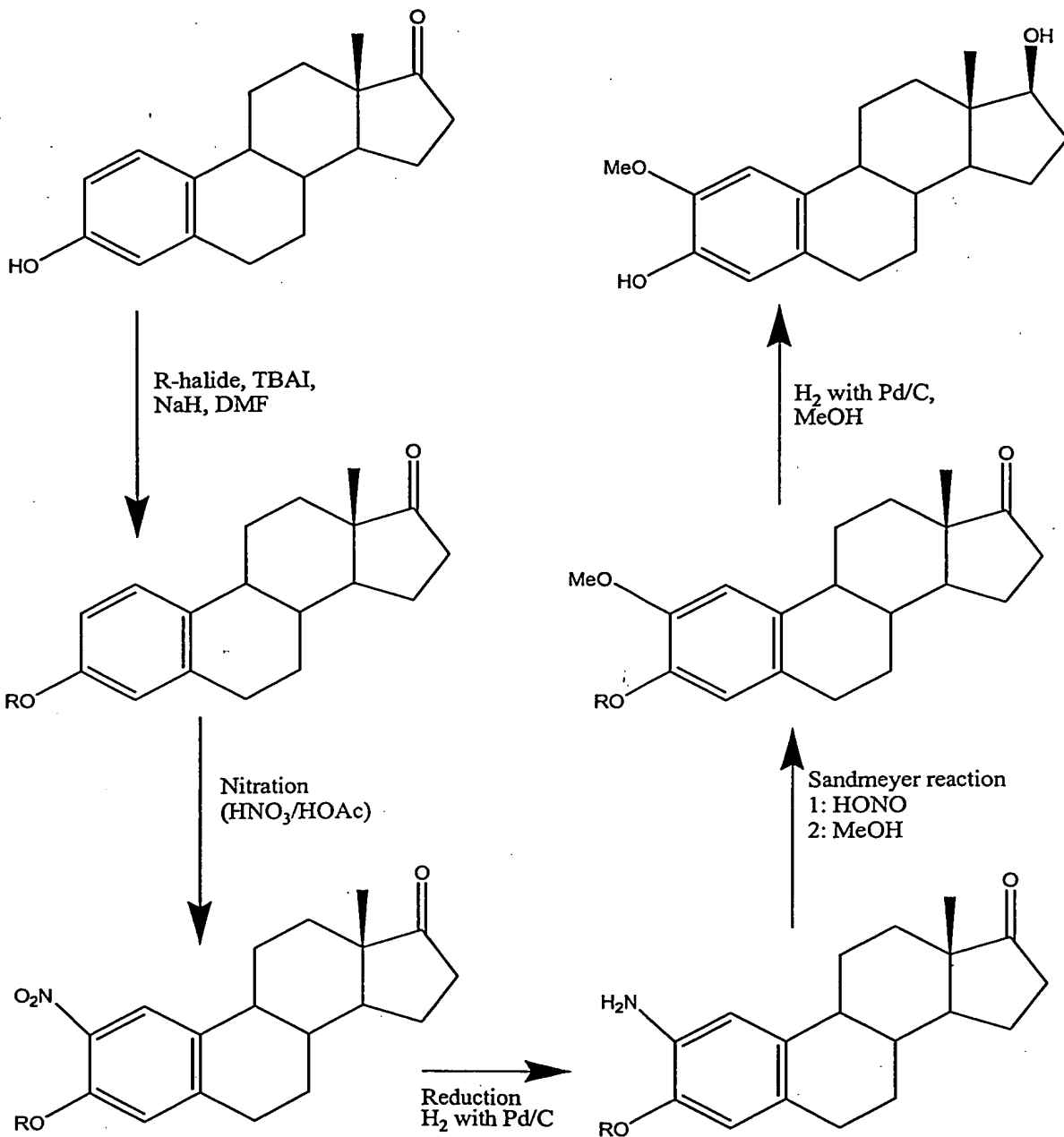
1. Br<sub>2</sub>, HOAc



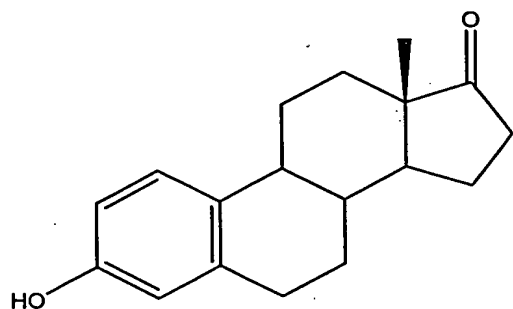
2. CuI, Benzo-15-crown-5  
NaOMe, DMF

000000-000000-000000

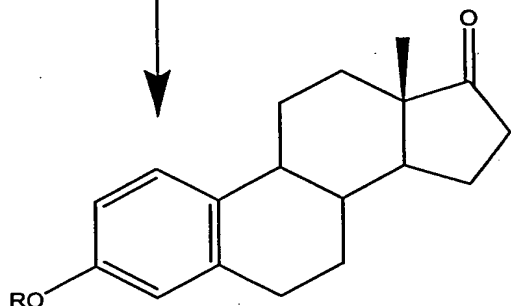
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



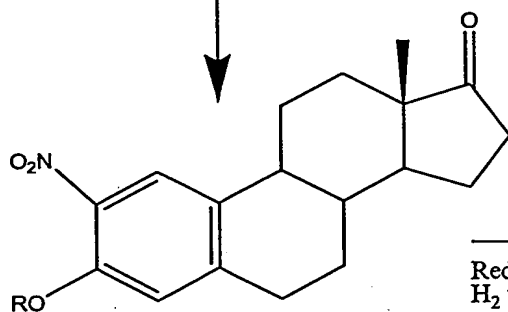
002280" 28544960



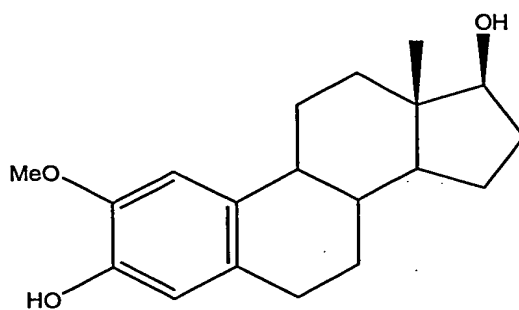
R-halide, TBAI,  
NaH, DMF



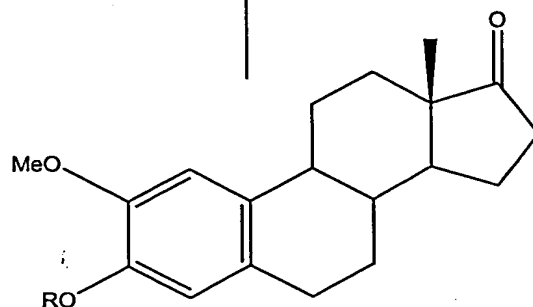
Nitration  
(HNO<sub>3</sub>/HOAc)



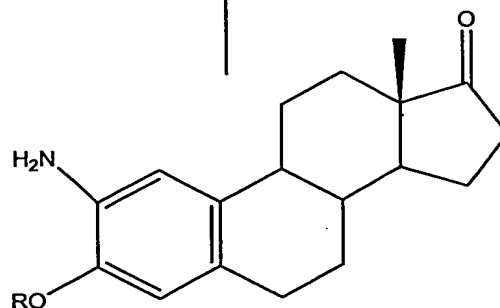
Reduction  
H<sub>2</sub> with Pd/C



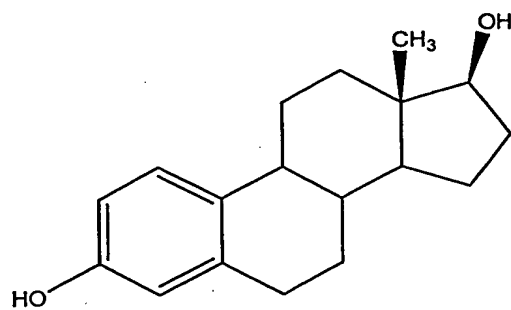
H<sub>2</sub> with Pd/C,  
MeOH



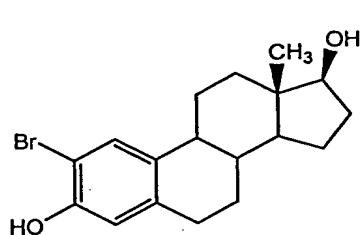
Sandmeyer reaction  
1: HONO  
2: MeOH



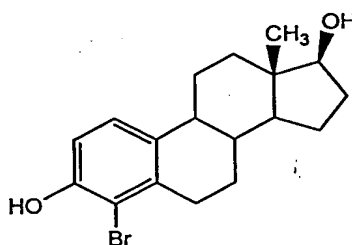
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



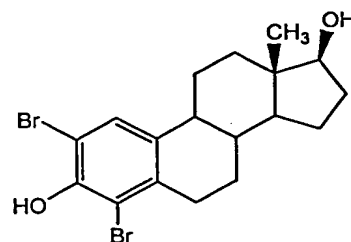
Br<sub>2</sub>  
HOAc  
THF



2-Bromo (desired)

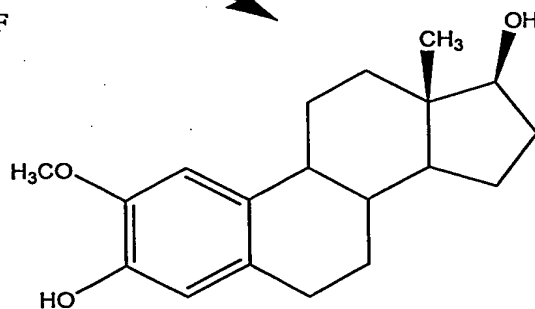


4-Bromo



2,4-Dibromo

CuI  
CH<sub>3</sub>ONa  
CH<sub>3</sub>OH  
DMF



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